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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/824,855	04/04/2001	Ching-Yu Chang	4425-130	9977
7:	590 01/30/2003			
LOWE HAUPTMAN GILMAN & BERNER, LLP			EXAMINER	
Suite 310 1700 Diagonal Road		CULBERT, ROBERTS P		
Alexandria, VA	A 22314		ART UNIT	PAPER NUMBER
			1763	

DATE MAILED: 01/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
•	09/824,855	CHANG, CHING-YU	
Offic Action Summary	Examin r	Art Unit	
	Roberts Culbert	1763	
Th MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	vith the correspondence address	_
A SHORTENED STATUTORY PERIOD FOR REPL	VIS SET TO EXPIRE 3 M	MONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute  - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).  Status	.136(a). In no event, however, may a by within the statutory minimum of the will apply and will expire SIX (6) MO te, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on Jan	<u>1 3 2003</u> .		
	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under			
Disposition of Claims	_		
4) Claim(s) <u>1-28</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdra	iwn from consideration.		
5) Claim(s) 17 and 18 is/are allowed.			
6) Claim(s) 1-16 and 19-28 is/are rejected.			
7) Claim(s) is/are objected to.	or alastian requirement		
<ul><li>8) Claim(s) are subject to restriction and/o</li><li>Application Papers</li></ul>	or election requirement.		
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on April 1, 2001 is/are: a)		to by the Examiner.	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on	_ is: a)☐ approved b)☐	disapproved by the Examiner.	
If approved, corrected drawings are required in re	eply to this Office action.		
12) The oath or declaration is objected to by the Ex	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	ts have been received in A	Application No	
<ul> <li>3. Copies of the certified copies of the prio application from the International Bu</li> <li>* See the attached detailed Office action for a list</li> </ul>	ureau (PCT Rule 17.2(a)).		
14) Acknowledgment is made of a claim for domest	•		1).
a) The translation of the foreign language pro	ovisional application has t	een received.	
Attachment(s)	, ,		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

## Response to Amendment

The amendment filed 01/03/02 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: There is no support in the specification for a limitation regarding the relative motion between the tank and the substrate, or the solution and the substrate.

Applicant is required to cancel the new matter in the reply to this Office Action.

### Response to Arguments

Applicant has argued that the method of Erk does not produce a rough surface as in the claimed invention and is therefore not a proper reference. The argument is not found persuasive because the surface is modified and a rough surface is produced as cited previously.

Applicant has argued that the claimed invention is not concerned with whether the bubbles are formed in the solution before the substrate is immersed and therefore distinguishes the claimed invention over the prior art. The argument is not found persuasive. One of ordinary skill in the art would recognize that it makes no difference whether the bubbles are formed in the solution before or immediately after the substrate is immersed because the steps occur approximately at the same time and the surface treatment and results would be unaffected by this small discrepancy.

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Applicant has argued that although the original specification does not recite the limitation that no relative motion between the substrate and the solution that the claimed invention recites the limitation inhehrently. The argument is not found persuasive because no evidence is provided from the specification to show inherency. Further, no evidence is provided that the results produced (i.e. rough surface) would be affected. Since the rotation suggested in Erk is quite slow, e.g. 1.5 rpm, one of ordinary skill would expect the result to be the same.

### Allowable Subject Matter

The indicated allowability of original claims 5-7 and 11-16 is withdrawn in view of. U.S. Patent 4,956,035 to Sedlak and IBM Technical Disclosure Bulletin Vol. 30, Issue 6, Page 244. While amended claims 5-7 and 11-16 are not rejected over the prior art, the claims as originally filed (i.e. without the new matter pointed out above) would be subject to rejection based on a combination of Erk in view of U.S. Patent 4,956,035 to Sedlak and IBM Technical Disclosure Bulletin Vol. 30, Issue 6, Page 244.

Claims 17 and 18 are allowed.

Claims 1-16 and 19-28, as amended, are not rejected over the prior art.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 1-16 and 19-28 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no support in the specification for a limitation regarding the relative motion between the tank and the substrate, or the solution and the substrate.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberts Culbert whose telephone number is (703) 305-7965. The examiner can normally be reached on Monday-Friday (7:30-4:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on (703) 308-1633. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

January 21, 2003

GZEGURY MILLS
SUPERVISORY PATENT EXAMINER
SUPERVISORY PATENT EXAMINER
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